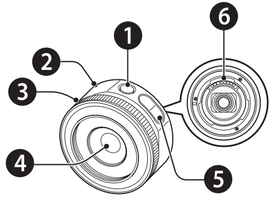
镜头
使用说明书

SAMSUNG 16-50mm F3.5-5.6 Power Zoom ED OIS

此说明书专门为指导您了解镜头基本功能和特征而设计。为保证安全、正确地使用，请仔细阅读此说明书。

AD68-08400A (1.0)

A



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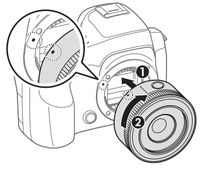

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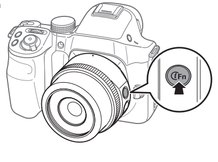

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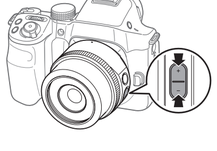


G

简体中文

使用本设备前

感谢您购买三星镜头。根据相机型号不同，此说明书中描述的一些功能可能不可用。使用镜头前，请更新相机的固件。否则，对于部分相机型号（NX200、NX20、NX210、NX1000、NX1100、NX2000、NX300、NX300M 和 Galaxy NX），图像中的颜色可能无法正常显示。请访问 www.samsung.com 以下载固件。

特殊功能

按下变焦按钮启动强效变焦功能。强效变焦可减少来自镜头的模糊和噪声，以在录制视频时优化画质。镜头锁定时，镜头管将滑进镜体内，以使其足够紧凑，便于随身携带。

拆开包装

镜头、镜头盖、镜头接口盖、镜头包、使用说明书

- **另购项目**：滤光镜

各部位名称（见图 A）

❶ i-Function 按钮 ❷ 镜头连接指示 ❸ 对焦圈
❹ 镜头 ❺ 变焦按钮 ❻ 镜头触点

安装和卸下镜头

► 要安装镜头：

1 卸下镜头盖、镜头接口盖和机身盖。

2 让镜头上的红色标记对准相机机身上的红色标记。然后如图所示旋转镜头，直到其锁定到位。（见图 B）

► 要卸下镜头，按住镜头释放按钮，然后如图所示旋转镜头。（见图 C）

使用对焦圈（见图 D）

如果在相机上设置手动对焦（MF）模式，请通过旋转镜头上的对焦圈手动调整对焦。

使用相机上的 **MF 辅助**功能以使您在手动对焦时更容易对焦。有关更多详细信息，请参阅相机说明书。

使用 i-Function

按下镜头上的 i-Function 按钮时，可以使用 ⓘ**effect** 模式或 ⓘ**zoom**，或者调整某些拍摄选项。在 ⓘ**effect** 模式中，可以选择相机支持的场景或滤光镜效果。相对于数码变焦，ⓘ**zoom** 在放大时照片画质损失更少。此功能仅在您的相机支持时适用。i-场景模式仅在部分相机型号上适用。

1 将模式旋钮旋转到 **P**、**A**、**S**、**M** 或 ⓘ。

2 按下镜头上的［**i-Function**］以选择设置。（见图 E）
- 可用设置可能因拍摄模式不同而异。

设定	拍摄模式	设定	拍摄模式
ⓘ**effect**	ⓘ	**光圈值**	**A**、**M**
ⓘ**zoom**	**P**、**A**、**S**、**M**、ⓘ	**曝光值**	**P**、**A**、**S**
快门速度	**S**、**M**	**白平衡，ISO**	**P**、**A**、**S**、**M**

3 旋转镜头上的对焦圈或调整设置（或在 ⓘ**zoom** 模式中更改变焦率）。

4 对焦并拍摄照片。

- 若要选择将在您按下镜头上的 i-Function 按钮时显示的项目，可使用相机上的 **iFn 设置**菜单。
- ⓘ**effect** 模式中的可用场景或滤光镜效果可能会因相机型号而异。
- 如果选择 ⓘ**zoom**，照片的分辨率将根据变焦率而有所不同。

放大或缩小

可通过按下镜头上的变焦按钮为您正在构图的照片设置焦距。（见图 F）

- 如果在相机上设置自动对焦（AF）模式，对焦圈将起到变焦环的作用。您也可通过旋转镜头上的对焦圈来设置焦距。（见图 D）
- 使用变焦功能时，对焦可能会稍有变化。建议拍照前重新调整对焦。
- 您可将镜头强效变焦按钮的变焦速度设置为快、中或慢。要设置变焦速度，请使用相机上的**镜头按钮速度设置**菜单。在快速时，来自镜头的噪声增加并会被录制到视频中。有关更多详细信息，请参阅相机说明书。
- 要正确使用**镜头按钮速度设置**功能，您必须保持相机的固件最新。部分相机型号可能不支持此功能。

使用滤光镜（另购）（见图 G）

将滤光镜连接在镜头上之前，请确保滤光镜与镜头兼容。关于兼容的滤光镜尺寸，请参考“规格”。

- 滤光镜是精密的光学设备。注意避免灰尘、污垢和划伤。不要将两个或两个以上滤光镜同时安装在镜头上。否则会损坏图像的质量并造成光晕（镜头的视角被遮挡造成的图像边缘亮度或饱和度损失）。
- 如果使用广角镜头和较厚的滤光镜，影像可能会发暗。

规格

镜头名称 SAMSUNG 16-50mm F3.5-5.6 Power Zoom ED OIS

- **焦距**：16 - 50 mm（在 35 mm 格式中相当于 24.6 - 77 mm）
- **镜头构成**：8 组，9 元件（随附 4 个非球面镜头、1 个超低色散镜头）
- **查看角度**：82.6° - 31.4°
- **光圈**：F3.5 - 5.6（最小：F22），（叶片数：7、圆孔径光栏）
- **接口类型**：三星 NX 接口（NX 系列专用）
- **光学图像稳定**：支持
- **最小对焦范围**：0.24 m（广角）、0.28 m（长焦）
- **最大放大倍率**：约 0.24X
- **i-场景模式**：支持（美颜拍摄、人像、儿童、逆光、风景、夕阳、黎明、海滩与雪景、夜景）
- **镜头遮光罩**：不支持
- **滤光片尺寸**：43 mm
- **最大直径×长度**：64.8 X 31 mm
- **重量**：约 111 g
- **操作温度**：0 - 40° C
- **操作湿度**：5 - 85 %

健康与安全信息

使用镜头前请仔细阅读下列安全注意事项。

警告
- 不要通过镜头或相机看太阳。否则可能会严重损伤您的眼睛。
- 使您的镜头或相机远离儿童和宠物。

注意
- 不要在未安装镜头盖的情况下，将镜头放在阳光直射的地方。直射的阳光通过镜头后聚焦在易燃物上可能导致火灾。
- 请仅使用坚固的三脚架。轻型或不稳定的三脚架可能会倒塌并损坏相机。

镜头的存储和维护

- 请在干燥、通风的地方存放镜头。
- 请勿将镜头存放在温度或湿度过高的区域，或者放置于壁橱、车辆或存放化学品的密闭区域。
- 使用强效变焦可能会增加电池消耗。
- 请勿将镜头放置在有水的环境中。
- 不要使用任何化学药品如稀释剂、酒精或苯擦拭灰尘。
- 小心不要掉落或受到其他物体的撞击。镜头是精密光学设备。
- 避免在温度频繁变化的地方使用镜头。将镜头放在塑料袋或相机包，防止镜头内外会产生水珠。
- 携带或不使用镜头时，请在镜头上装上镜头盖或镜头接口盖，以免镜头被异物污染或被划伤。
- 不要把没带镜头盖的相机放在三脚架上。相机内部零件可能被直射的阳光损坏。
- 为保持镜头性能，每一年或两年检查一次。
- 不要对镜头前面施加外力。
- 为了安全地使用镜头，请在相机电源关闭的状态下安装或拆卸镜头。
- 对于使用其他公司镜头造成的任何损坏，三星不承担任何责任。
- 在安装镜头时，确保仅在清洁的环境更换镜头并且不要将手指伸到镜头接口中。如果有异物进入相机机身或镜头，可能会影响拍摄效果或导致故障。
- 打开相机时，镜头管将自动从镜体内伸出。当镜头管伸出时，请勿对镜头前端施加力。否则可能会损坏镜头。
- 完成使用变焦按钮并且您准备好关闭相机后，镜头管会滑回镜体内。在镜头管的任何部分伸出时运送或储存镜头可能会损坏镜头。完成使用镜头时，将其关闭并缩回镜头管。
- 相机在使用变焦功能时请勿对镜头前端太过用力。否则可能会导致镜头发生故障。

PlanetFirst 体现三星通过生态导向业务与管理活动，对于持续发展与社会责任的承诺。

☐ 产品名：镜头(Lens)
☐ 环保使用期限:10年
— 只有按照本产品使用说明书中的方法正常使用时，环保使用期限才能有效

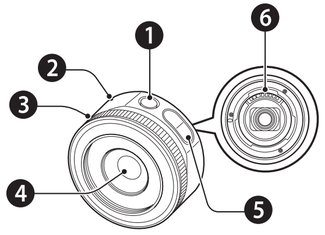
部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
镜头/ LENS	×	○	○	○	○	○

○： 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求以下。
×： 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006规定的限量要求。
注： 超过限量要求的部件皆因全球技术发展水平而无法实现有毒有害物质或元素的替代，但是 Samsung 正为了开发替代技术而努力。（资料公开基准:供应商提供的成绩书，Samsung 检测结果）

中国制造 天津三星光电子有限公司
中国 天津津港公路微电子工业区张衡道9号

保留备用

A



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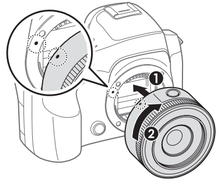
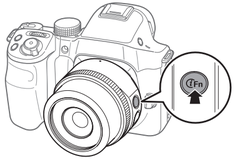


C

D

E



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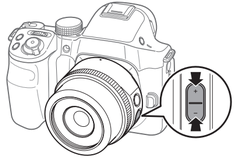

G

English

Before Using This Device

Thank you for purchasing the Samsung Lens. Some functions described in this manual may not be available depending on the camera model. Before using the lens, please update the camera's firmware. Otherwise, the color in images may not appear properly for some camera models (NX200, NX20, NX210, NX1000, NX1100, NX2000, NX300, NX300M, and Galaxy NX). Visit www.samsung.com to download the firmware.

Special features

Launch the Power Zoom feature by pressing the zoom button. Power Zoom reduces blurring and noise from the lens to optimize quality when recording video. When the lens is locked, the lens tube slides inside the lens body making it compact enough to carry around.

Unpacking

Lens, Lens cap, Lens mount cover, Case, User manual

- **Optional Item**: Filter

Layouts (See illustration A)

❶ i-Function button ❷ Lens mount index ❸ Focus ring ❹ Lens ❺ Zoom button ❻ Lens contacts

Attaching and Removing the Lens

► To attach the lens,

1 Remove the lens cap, lens mount cover, and body cap.

2 Align the red mark on the lens with the red mark on the camera body. Then, rotate the lens as shown in the illustration until it locks into place. (See illustration B)

► To remove the lens, press and hold the lens release button, and then rotate the lens as shown in the illustration. (See illustration C)

Using the Focus Ring (See illustration D)

If you set the Manual Focus (MF) mode on your camera, adjust the focus manually by rotating the focus ring on the lens.

Use the **MF Assist** function on the camera to focus more easily when you are manually focusing. Refer to your camera manual for more details.

Using i-Function

When you press the i-Function button on the lens, you can use the ⓘ**effect** mode or ⓘ**zoom** or adjust some shooting options. In the ⓘ**effect** mode, you can select scenes or filter effects that your camera supports. ⓘ**zoom** allows you to zoom in on a subject with less degradation of photo quality than the Digital zoom. This feature is available only when your camera supports it. i-Scene mode is available only on some camera models.

1 Rotate the mode dial to **P**, **A**, **S**, **M**, or ⓘ.

2 Press [**i-Function**] on the lens to select a setting. (See illustration E)

- Available settings may differ depending on the shooting mode.

Setting	Shooting mode	Setting	Shooting mode
ⓘ**effect**	ⓘ	**Aperture value**	**A**, **M**
ⓘ**zoom**	**P**, **A**, **S**, **M**, ⓘ	**Exposure value**	**P**, **A**, **S**
Shutter speed	**S**, **M**	**White Balance, ISO**	**P**, **A**, **S**, **M**

3 Rotate the focus ring on the lens to adjust the setting (or to change the zoom rate in ⓘ**zoom** mode).

4 Focus and capture the photo.

- To select the items that will appear when you press the i-Function button on the lens, you can use the **iFn Setting** menu on your camera.
- Available scenes or filter effects in the ⓘ**effect** mode may vary depending on the camera model.
- If you select ⓘ**zoom**, the photo resolution will vary according to the zoom rate.

Zooming in or out

Set the focal length for the photo you are composing by pressing the zoom button on the lens. (See illustration F)

- If you set the Auto Focus (AF) mode on your camera, the focus ring operates as a zoom ring. You can also set the focus length by rotating the focus ring on the lens. (See illustration D)
- When you use the zoom function, the focus may change slightly. Adjust the focus again before you capture a photo.
- You can set the zoom speed for the lens' Power Zoom button to fast, medium, or slow. To set the zoom speed, use the **Lens Button Speed Settings** menu on your camera. At fast speed, noise from the lens increases and can be recorded in videos. Refer to your camera manual for more details.
- To use the **Lens Button Speed Settings** feature properly, you must keep the camera's firmware up-to-date. This feature may not be supported by some camera models.

Using a Filter (optional) (See illustration G)

Before putting a filter on the lens, make sure it is compatible. Refer to "Specifications" for compatible filter size.

- A filter is a precise optical product. Keep away from dust, dirt or scratches. Also, do not try to mount two or more filters at the same time. Doing so may deteriorate the image quality and cause vignetting (a reduction of an image's brightness or saturation at the periphery as the viewing angle of the lens is hidden).
- In case of a thick framed filter, the vignetting can occur with a wide-angle lens.

Specifications

Lens Name	SAMSUNG 16-50mm F3.5-5.6 Power Zoom ED OIS

- **Focal length**: 16–50 mm (equivalent to 24.6–77 mm in 35 mm format)
- **Elements in Group**: 9 elements in 8 groups (4 aspheric lens, 1 Extra-low Dispersion lens included)
- **Angle of View**: 82.6°–31.4°
- **Aperture**: F3.5–5.6 (Minimum: F22), (Number of Blades: 7, Circular Aperture Diaphragm)
- **Mount Type**: Samsung NX mount (Exclusive to NX series)
- **Optical Image Stabilizer**: Supported
- **Minimum Focus Distance**: 0.24 m (Wide), 0.28 m (Tele)
- **Maximum Magnification**: Approx. 0.24X
- **i-Scene Mode**: Supported (Beauty Shot, Portrait, Children, Backlight, Landscape, Sunset, Dawn, Beach & Snow, Night)
- **Lens Hood**: Not Supported
- **Filter Size**: 43 mm
- **Max. Diameter X Length**: 64.8 X 31 mm
- **Weight**: Approx. 111 g
- **Operating Temperature**: 0–40 °C
- **Operating Humidity**: 5–85 %

Health and Safety Information

Please read the following safety tips carefully for proper and safe use.

Warning	• Do not stare at the sun through the lens or camera. This may cause severe damage to your eyes. • Keep your lens or camera away from small children and pets.
Caution	• Do not store the lens in direct sunlight without the lens cap. Direct sunlight that passes through the lens may combust if it comes into contact with flammable materials. • Use only sturdy tripods. Lightweight or unstable tripods may fall over and damage the camera.

Lens Storage and Maintenance

- Store the lens in dry and well ventilated areas.
- Do not store the lens in areas of high temperature or humidity or in a closet, car, or confined area where chemicals are stored.
- Using the power zoom feature may increase battery consumption.
- Do not expose the lens to water.
- Do not use chemicals such as thinner, alcohol, or benzene to remove dust.
- Do not drop the lens or apply excessive shock to it. The lens is a precise optical product.
- Avoid using the lens anywhere there is a sudden temperature change. Keep the lens in a plastic bag or a camera case to prevent condensation from forming on the inside or outside of the lens.
- When carrying or not using the lens, place the lens cap and lens mount cover on the lens to prevent contamination from foreign particles and protect the lens from scratches.
- Do not keep the camera mounted on a tripod without the lens cap. The inside of the camera can be damaged by direct sunlight.
- Check the lens once every year or two for best performance.
- Do not apply excessive force to the front of the lens.
- For safe use of the lens, mount or dismount the lens while the camera is turned off.
- Samsung is not responsible for any damage incurred by using other manufacturers' lenses.
- Make sure to change lenses only in a clean environment and do not put your fingers into the lens mount when mounting the lens. Foreign particles may affect shooting results or cause a malfunction if they enter the camera body or the lens.
- When you turn on the camera, the lens tube automatically extends from the lens body. Do not apply force to the front of the lens while the lens tube is extending. Doing so may damage the lens.
- After you have finished using the zoom button and you are ready to turn off the camera, the lens tube slides inside the lens body. Transporting or storing the lens with any part of the lens tube extended, may damage the lens. When you finish using the lens, turn it off and retract the lens tube.
- Do not apply excessive force to the front of the lens while the camera is using the zoom function. Doing so may cause the lens to malfunction.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Planet First RoHS Compliant

PlanetFirst represents Samsung Electronics' commitment to the sustainable development and social responsibility through eco-driven business and management activities.

Please refer to the warranty that came with your product or visit our website www.samsung.com for after-sales service or inquiries.